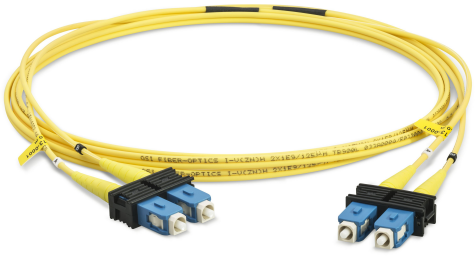
Rosenberger

PRODUCTPROFILE

Catalogue number: 062A1726G657A1

Partnumber: 755288

Fiber optic duplex patchcord
Connector side A: SC-Duplex
Connector side B: SC-Duplex
9/125µm, Zipcord 2x2.1mm, yellow
Polarity: crossed A to B
Cable I-V(ZN)H2x2,1E9/125µm,G657A1



Related documents:

DS_FASER G657A1_OE	Fiber Data Sheet
DS_I-VZNH2X21_900_L_OE	Cable Data Sheet
DS_SC_STECKER_OE	Steckerdatenblatt

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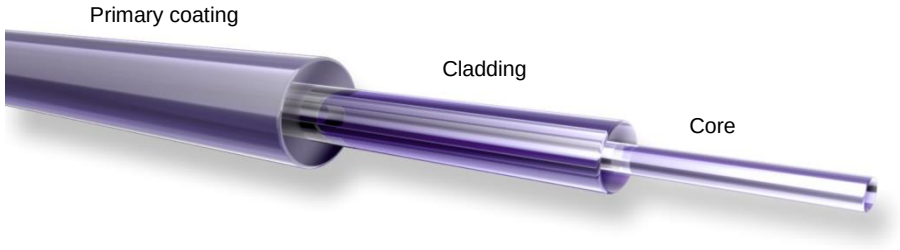
Technical Data Sheet	Rosenberger
Optical fiber G.657.A1/G.652.D	059A0478



Standards

Stepped index fiber 9/125µm according to
-ISO/IEC 11801 und EN 50173-1 OS2
-IEC 60793-2-50 type B1.3
-ITU G.657.A1 und G.652.D

Structure

Silica fiber with two layer acrylate primary coating

Geometrical properties

Modefield diameter @1310 nm	**9.2 µm +/- 0.4 µm**
Modefield diameter @1550 nm	**10.4 µm +/- 0.5 µm**
Cladding diameter	**125 µm +/- 0.07 µm**
Cladding non-circularity	**≤ 0.7 %**
Core-Cladding concentricity	**≤ 0.5 µm**
Primary coating diameter	**242 µm +/- 5 µm**
Coating-Cladding concentricity	**< 12 µm**

Mechanical properties

Break strength SCREEN-Test 1 % strain for 1 s @100 kpsi

Thermal properties

Operating temperature range -60 to +85°C

Transmission characteristics

Attenuation:

Cabled fiber tight buffered:	**@ 1310 nm max. 0.38 dB/km** **@ 1550 nm max. 0.28 dB/km**
Cabled fiber loose tube:	**@ 1310 nm max. 0.36 dB/km** **@ 1550 nm max. 0.22 dB/km**
Uncabled fiber:	**@ 1310 nm max. 0.32 dB/km** **@ 1383 nm max. 0.32 dB/km** **@ 1490 nm max. 0.21 dB/km** **@ 1550 nm max. 0.18 dB/km** **@ 1625 nm max. 0.20 dB/km**

Macrobending, induced attenuation, uncabled fiber:
Radius 10 mm, 1 turn, @ 1550 nm ≤ 0.50 dB
Radius 10 mm, 1 turn, @ 1625 nm ≤ 1.50 dB
Radius 15 mm, 10 turns, @ 1550 nm . 0.05 dB
Radius 15 mm, 10 turns, @ 1625 nm ≤ 0.30 dB
Radius 25 mm, 100 turns, @ 1310, 1550 und 1625 nm ≤ 0.01 dB

Dispersion:

@ 1285 - 1330 nm	**≤ 3.0 ps/(nm*km)**
@ 1550 nm	**≤ 18.0 ps/(nm*km)**
@ 1625 nm	**≤ 22.0 ps/(nm*km)**

Polarization Mode Dispersion (PMD):
PMD Link Design Value ≤ 0.04 ps/√km
Maximum individual fiber PMD ≤ 0.1 ps/√km

Cut-off-Wavelength: ≤ 1260 nm

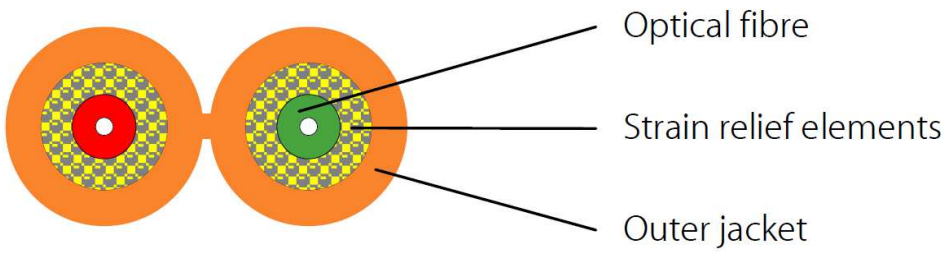
Effective group index of refraction:
@ 1310 nm 1.4676
@ 1550 nm 1.4682

Backscatter attenuation @ 1ns pulse width:
@ 1310 nm -77 dB
@ 1550 nm -82 dB
@ 1625 nm -83 dB

Draft	Date	Approved	Date
H. Jungbäck	12-04-15	P. Maier	12-04-15

Rev.	Engineering change number	Name	Date
001	without	H. Jungbäck	12-04-15

Technical Data Sheet	Rosenberger
Fiber Optic Cable I-V(ZN)H 2x 2.1mm… 900µm	033AXXXX



Standards

IEC 60794-2

Structure

Cable core:
buffered optical fiber, outer diameter 0.9 mm
colour: red, other core yellow (E9/125), green (G50/125), blue (G62.5/125)
Strain relief elements (aramid)

Outer jacket:
Halogen-free and flame-retardant material (FRNC)
Standard colours:

Singlemode:	**yellow**
Multimode 50 µm:	**orange or green**
Multimode OM3:	**aqua (turquoise)**
Multimode 62.5 µm:	**orange**
Multimode OM4:	**violet**

Wall thickness 0.3 mm
Inkjet marking black acc. to separate drawing

Geometrical properties

Number of fibers	Outer diameter [mm]	Weight [kg/km]	Fire load [MJ/m]
2	2.1 x 4.3	10.2	0.24

Mechanical properties

Min. bending radius (over the flat side) only for bending resistant fibers	
static	**10mm**
dynamic	**30mm**
Min. bending radius (over the flat side) for cables with standard fibers	
static	**30mm**
dynamic	**60mm**
Max. pull force	**400 N**
Max. crush resistance long term	**400 N/dm**

Thermal properties

Transport and storage	**- 25°C to + 70°C**
Installation	**- 5°C to + 50°C**
In use	**- 5°C to + 70°C**

Chemical properties

No resistance to oil, petrol, acid, leach and water

Fire performance

-Flame-retardant acc. to IEC 60332-1-2 and IEC 60332-3-22 Cat. A
-Smoke density acc. to IEC 61034
-Halogen-free acc. to IEC 60754-1
-Acidity of the combustion gases acc. to IEC 60754-2

Transmission characteristics

See fiber data sheets

Applications

Indoor cable for the installation in cable ducts and in tubes and also suitable for interconnections
For direct connector assembly

Deliveryform

Disposable drums

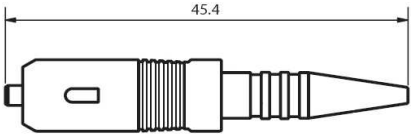
Draft	Date	Approved	Date	Rev.	Engineering change number	Name	Date
P. Maier	02.02.2016	H. Jungbäck	02.02.2016	001	without	Y. Zhang	22.06.2017

Technical Data Sheet

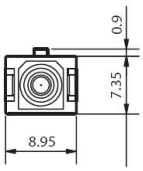
Rosenberger

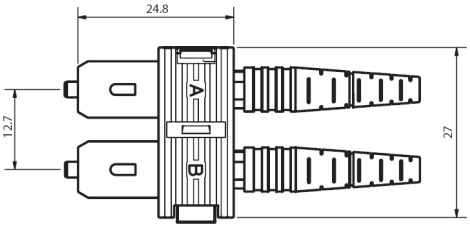
SC Connectors

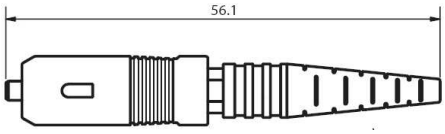
98 SCS XXX



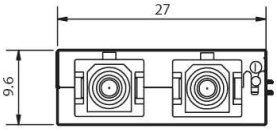
SC-simplex, buffered fiber







SC-simplex, cable



SC-duplex

All dimensions are in mm; tolerances acc. ISO 2768 m-H

Properties

Standard SC connectors for applications in telecommunications, data center, cabling and LAN, connections to active components.

Interface

SC, acc. to IEC 61754-4

Material for connectors

Ferrule :	Zirconia ceramic, Ø 2.5 mm
Body :	Plastics
Boot :	Plastics

Optical data

		Typical	max.
Insertion Loss :	S/M	0.20 dB	0.40 dB
	M/M	0.20 dB	0.40 dB
Return Loss :	S/M	≥45 dB(PC),	≥55 dB(UPC), ≥65 dB(APC)
	M/M	≥30 dB	

Mechanical data

Mating cycle	≥ 1000
Strain relief	100 N(dependent on the cable type)

Environmental data

Operation temperature range	-40°C to +85°C
Storage temperature range	-40°C to +85°C

Suitable cables

Cable Types :	Ø 0.9 ~ 3.5 mm

Packaging

Standard Packaging.

Connector Part		Part No
Connector Body		
Singlemode, PC,	blue	98 SCS 120-101
Singlemode, APC,	green	98 SCS 110-101
Multimode, 50 µm,	black	98 SCS 130-101
Multimode, 62.5 µm,	beige	98 SCS 130-102
Duplex clip, black		98 ZD 02-0BK
Crimp sleeve		
for ∅ 2.1		98 ZC 05-000
for ∅ 2.8-3.5		98 ZC 04-000
Boot, ∅ 0.9 mm buffered fiber		
blue		98 ZB 06-0BU
green		98 ZB 06-0GN
black		98 ZB 06-0BK
yellow		98 ZB 06-0YE
red		98 ZB 06-0RD
Boot, ∅ 2.1 mm cable		
blue		98 ZB 05-0BU
green		98 ZB 05-0GN
black		98 ZB 05-0BK
yellow		98 ZB 05-0YE
red		98 ZB 05-0RD
Boot, ∅ 2.8-3.5 mm cable		
blue		98 ZB 04-0BU
green		98 ZB 04-0GN
black		98 ZB 04-0BK
yellow		98 ZB 04-0YE
red		98 ZB 04-0RD

Draft	Date	Approved	Date
Y.Zhang	29.03.2017	H.Jungbäck	29.03.2017

Rev.	Engineering change number	Name	Date
002	---	Y.Zhang	29.03.2017